FOLIO
DT377
.F36

VOYAGE

EN

ABYSSINIE

DANS LES PROVINCES DU TIGRÉ, DU SAMEN
ET DE L'AMHARA,

DÉDIÉ A S. A. R. MONSEIGNEUR LE DUC DE NEMOURS

PAR

Pierre Victor Ad

MM. FERRET ET GALINIER,

CAPITAINES AU CORPS ROYAL D'ÉTAT-MAJOR, CHEVALIERS DE LA LÉGION D'HONNEUR.

Publié par ordre du Gouvernement.

ATLAS.

PARIS.

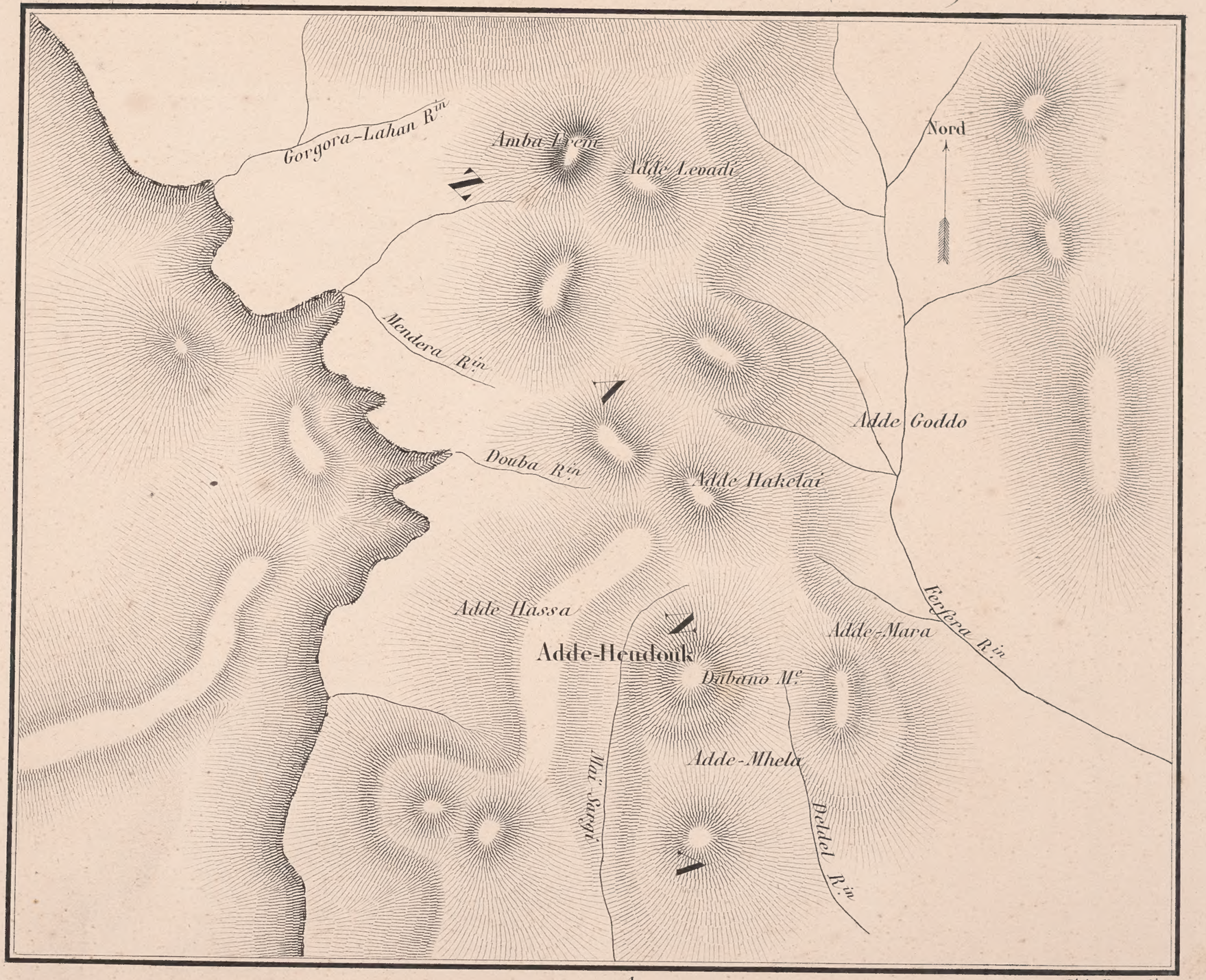
PAULIN, LIBRAIRE-ÉDITEUR,

60, RUE RICHELIEU.

1847—1848

Mo. Bot. Garden,
1900.

PLAN DES ENVIRONS D'ADDE HEUDOUK *(Levé à Vue)*

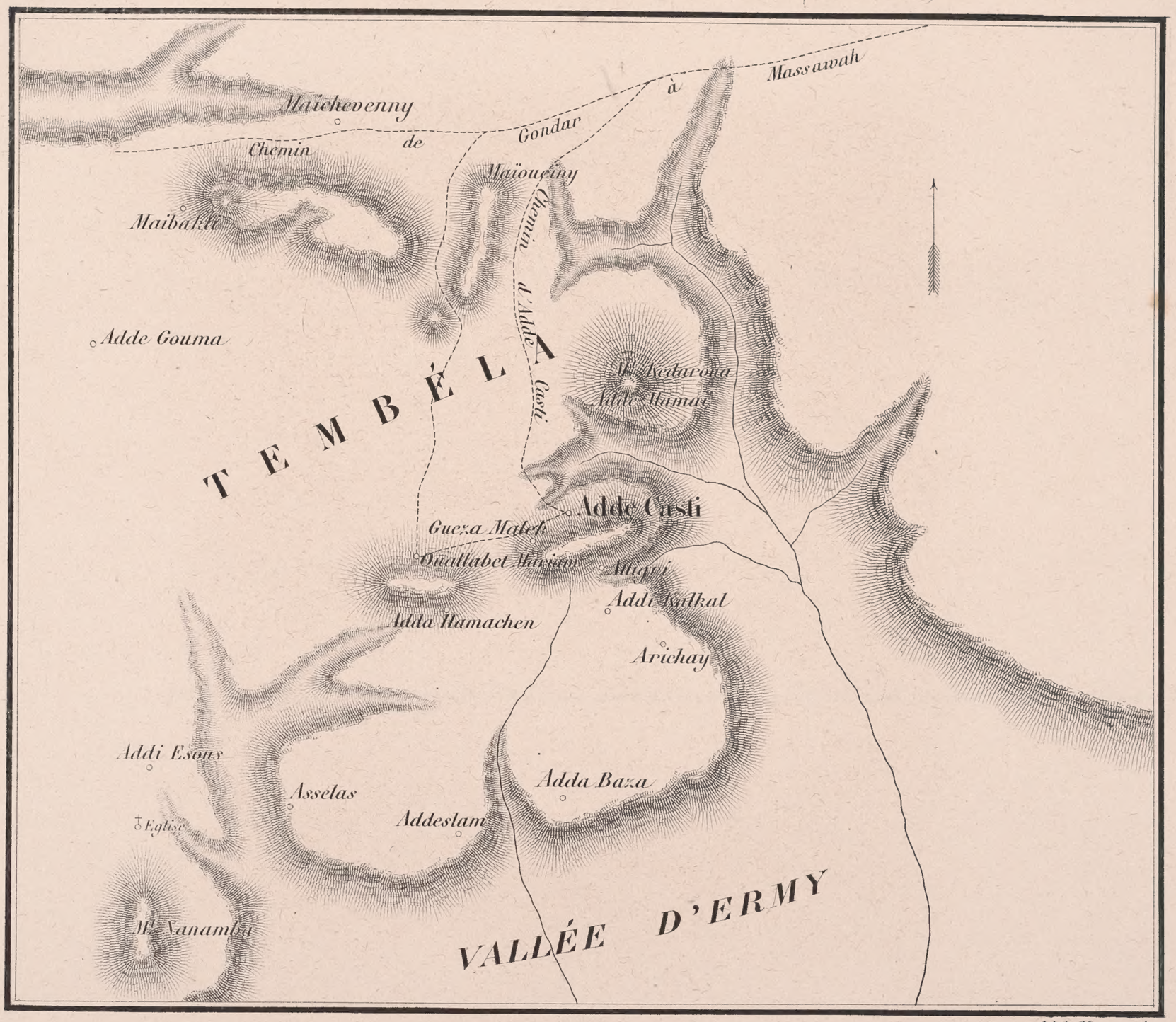


Echelle $\frac{1}{(100,000)}$

1000 300 0 1000 2000 3000 4000 5000 6000 7000 Mètres

Lith. Kaeppelin

PLAN DES ENVIRONS D'ADDE CASTI *(Levé à vue).*



Echelle $(100\frac{1}{000})$

1000 500 0 1000 2000 3000 4000 5000 6000 7000 Metres

Lith. Kaeppelin

CARTE

D'ACIR ET DU MIDI DU HEDJAZ

DRESSÉE A DJEDDAH

PAR M. M. FERRET ET GALINIER

Capitaines d'Etat Major

d'après les renseignements pris dans le pays,
par M. M. le Colonel Mari et le Docteur Chedufau.

1840.

Echelle $\frac{3}{4,000,000}$

Myriamètres 5 2 1 0 2 4 6 8 10 12

Lieues de 25 au degré 5 4 3 2 1 0 5 10 15 20 25

Milles Arabes de 56 $\frac{1}{3}$ au degré 10 8 6 4 2 0 10 20 30 40 50 60

Heures de chemin des caravanes 5 4 3 2 1 0 5 10 15 20 25

Tribu errante de Beni Hamer

Tribu de Oudeï-el-Cham

Tribu de Ibn-el-Hareth

Tribu de Beg'oum

Tribu de Soubay

Grande Tribu errante des Gahtan

Entrée de la Vallée de DAWACIR

Djebel Kara

Thackif

Beni Soufyan

Beni-Fahin

Benisaad

Nasera

Oudeï-Yemen

Beni Malek

Zahran

Raghdan

Lith

Chamid

Ghamram

Ibtgarn

Beni-Amr

Beni Schehr

Confoudah

Belasmar

Belahmar

Rouféyda

Khamys Micheyt

Ridjal Amr

Mellaha

Hamama ou Ma'malah Kebirah

Ma'malah Saghirah

Bedouins errants d'Ali ibne Heyder

Plaine de Hiver

Heyfah

MER ROUGE

AFRIQUE

MECQUE

DJEDDAH

TAYF

Graveé sur pierre par Regnier et Dourdet, 8 Passage Ste. Marie (rue du Bac).

Lith.e Kaeppelin.

CARTE
DE L'ABYSSINIE

PAR M. M. FERRET ET GALINIER

Capitaines d'Etat-Major

d'après leurs observations astronomiques, leurs reconnaissances, et les itinéraires de M. Beke.

1841-1842.

Gravé sur pierre par Regnier et Dourdet, 8, Pge Ste Marie, à Paris.

Lith.e Kaeppelin.

Echelle ($\frac{1}{2000,000}$.)

109 8 7 6 5 4 3 2 1 0 5 10 15 20 25 30 35 40 lieues

CARTE

D'UNE PORTION DE L'ABYSSINIE,

DRESSÉE SUR LES LIEUX EN 1841 ET 1842,

PAR M. M. FERRET ET GALINIER

Capitaines d'Etat-Major,

D'après leurs reconnaissances, leurs observations astronomiques et les renseignemens pris dans le pays.

Echelle ($\frac{1}{600{,}000}$)

10,000 5,000 0 10,000 20,000 30,000 40,000 50,000 Mètres

35° 36° 37° 38°

15° 14° 13°

GALLAS inhabités à cause du voisinage des Changallas

MER ROUGE

ILE DE DAHLAC

Messawah

Arkiko

Haylet

Guendah

TRIBU DES TOROAH

Adoulis

HAMACEN

Balak

Courbaréa

Eggala-Gourah

Kayekor

Mahraba

Adoah

AKALÉ

Eggala Axin

Gonguobe ou Alem

Loggo

Neggot

Baraghet

SERROUXO

Debeha

Igarat

Lahlen Saabaha

Hassa Garoua

Bellallé

Tsallem-Tsabri

Ayehlé

Rayat ou Avoho

Roroni

Guerrah

Sabbah

Zarasser

Fiche

Atsbi

Berki

MOMBOURTA

DESSA

Zaguer

Koundabah

SERAWE

COUAÏN

Taber

Add'Erbahti

Allelo

Addi'Abo

Asade

Axum

Adona

Semama

Mai-Braslo

Tembeka

Hayda

Beniora

Angueré

Mai Talo

Debbek

Tchelicot

Antalo

Dorombassa

Addera

Sambré

Aybato

Ari

SALOWA

Tchagbat

Damokomma

AZOBO GALLAS

Chaakne

Sanja

Debarek

Taras-Saber

Tjanifankara

Doqoua

Inchelkab

Janamora

Sabra

Tjaa

Mahna

Mailoko

Betjagué

MENNA

BELESSA

GONDAR

Mourangueb

Abramfanti

Pays habité

Pays peu habité

Guerahalta

Abbi-Addi

Tacaragaza

Ayba Goulicha

Corraro

Daboi Sama

Maitsaïti

Maraita

Tchelicha

Ashollia

Ambera

Zahay

Gluembeba

Bet Samati

Mara

Bet Mara

Lith.ie de Kaeppelin

CARTE GÉOLOGIQUE
DU
TIGRÉ ET DU SAMEN

PAR M. M. FERRET ET GALINIER

Capitaines d'Etat-Major

1848.

LÉGENDE

A	*Alluvions argilo-sableuse salifères*	Terrains Modernes
B	*Calcaire travertin*	
C	*Madrépores et Coquilles*	
E	*Basaltes (Basalte, Basanite, Wacke, Amygdaloïde, Péridolite &c.)*	Terrains Tertiaires
D	*Trachytes et Rétinites quarzifères*	
F	*Grés, Tripoli, Argile et Porcellanite*	
I	*Mélaphyre*	Terrains Secondaires
H	*Plaine de Sel marin avec Soufre, Argile et Tripoli*	
G	*Calcaire, Marne et Grés* — Groupe Oolitique	
J	*Diorite serpentineux*	
K	*Diorite, Amphibolite et Epidolite*	
L	*Eurite*	Terrains Intermédiaires.
M	*Syénite*	Groupe Phylladique
N	*Grés, Quarzite et Phyllade*	
O	*Phyllade, Grauwacke, Anagénite, Grés, Quarzite et Talcschiste*	
P	*Talcschiste*	Terrains Primitifs.
Q	*Protogine (Gneiss Talqueux)*	
R	*Micaschiste et Hyalomicte* — Groupe Gneissique	
S	*Gneiss*	
T	*Granite*	

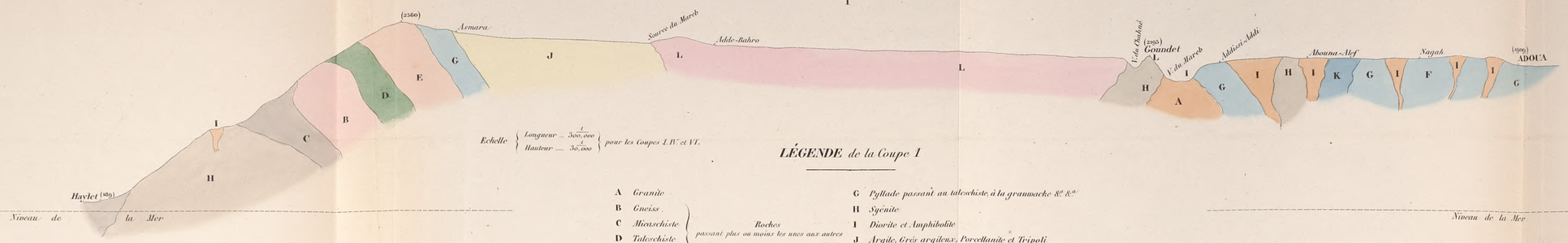
Gravé sur pierre par Regnier et Dourdet, 8. Passage Ste. Marie

Lith.ie de Kaeppelin

Myriamètres Kil.s 10 5 0 1 2 3 4 5 6 7 8 9 10 — Echelle (1,000,000) — Lieues de 25 au degré 5 4 3 2 1 0 5 10 15 20

Coupe d'Haylet à Adoua passant par Goundet

Coupe I



LÉGENDE de la Coupe I

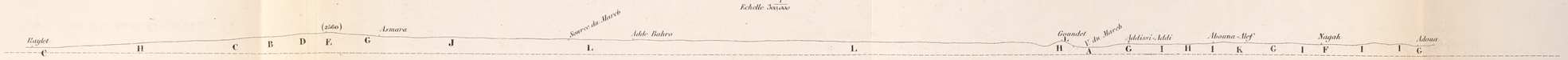
- A *Granite*
- B *Gneiss*
- C *Micaschiste*
- D *Talcschiste*
- E *Protogine*

(Roches passant plus ou moins les unes aux autres)

- F *Talcschiste*
- G *Pyllade passant au talcschiste, à la grauwacke &c. &c.*
- H *Syénite*
- I *Diorite et Amphibolite*
- J *Argile, Grès argileux, Porcellanite et Tripoli*
- K *Trachytes*
- L *Basaltes*

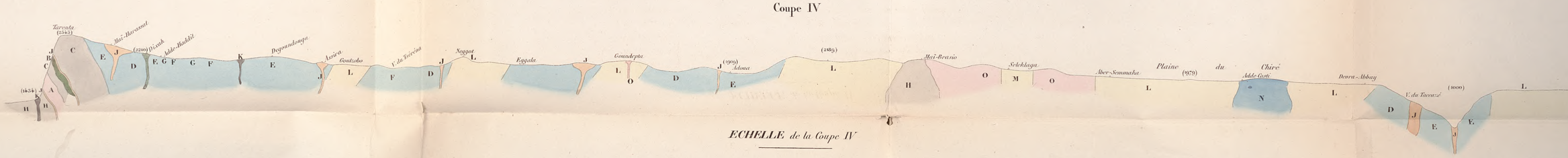
Coupe I bis

Echelle 1/300,000



Coupe du Tarenta au Taccazé passant par Adoua et le Chiré

Coupe IV



ECHELLE de la Coupe IV

- A *Gneiss*
- B *Talcschiste*
- C *Protogine*

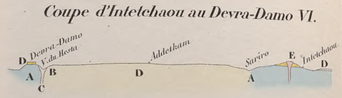
(Roches passant plus ou moins les unes aux autres)

- D *Talcschiste passant au Phyllade*
- E *Phyllade*
- F *Grauwacke schisteuse*
- G *Grès passant à la Grauwacke*
- H *Syenite et porphyre quarzifère*
- I *Eurite quarzifère serpentinoïde*
- J *Diorite, amphibolite et épidolite*
- K *Métaphyre*
- L *Argile, grès, jaspe, oligiste limonite &c.*
- M *Limonite et oligiste*
- N *Trachytes*
- O *Basaltes*

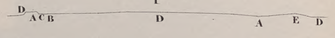
ECHELLE de la Coupe VI

- A *Phyllade*
- B *Tripoli phylladien passant à la porcellanite*
- C *Amphibolite*
- D *Grès, argile, tripoli et porcellanite*
- E *Basalte*

Coupe d'Intetchaou au Desra-Damo VI.

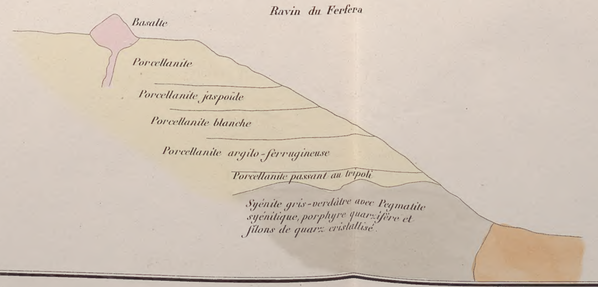


Coupe VI bis.



Coupe II

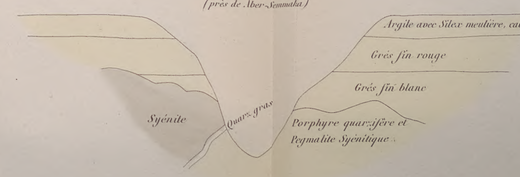
Ravin du Ferfera



Coupe III

Ravin de Murakat

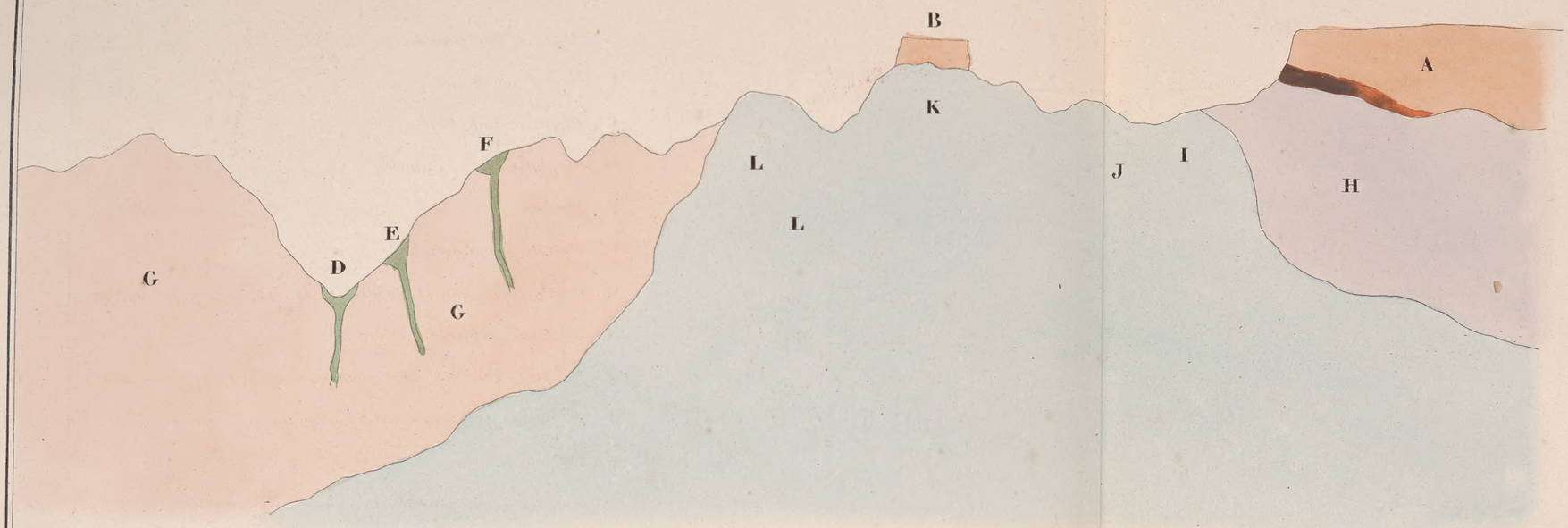
(près de Aber-Semmaha)



Gravé sur pierre par Regnier et Bourdet.

Lith.e Kaeppelin

Coupe V



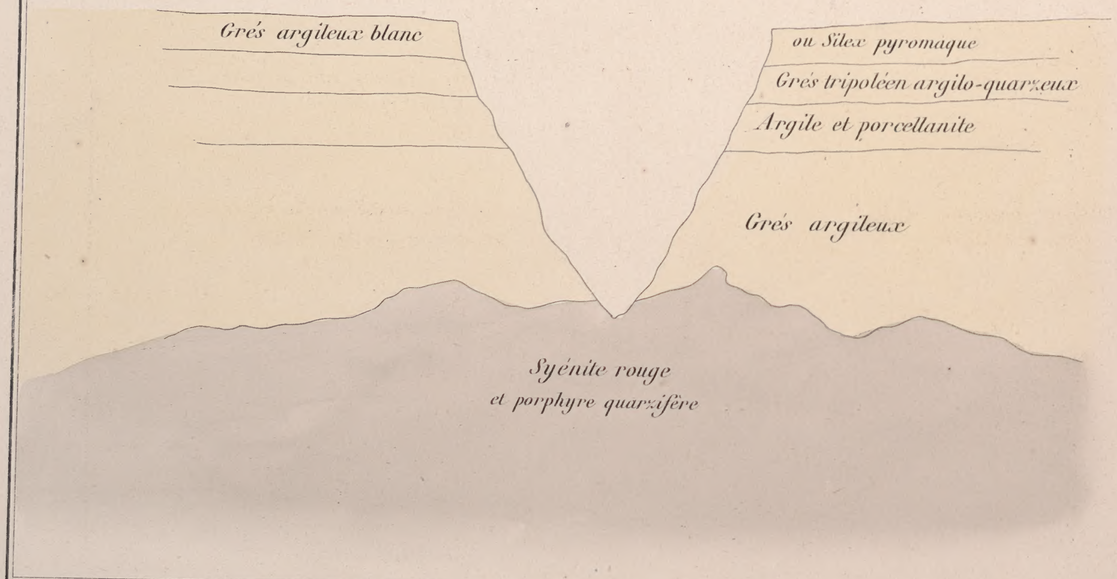
LÉGENDE

de la Coupe V

- **A** *Argile et porcellanite*
- **B** *Grès rouge bigarré*
- **C** *Quarz résinite bleu*
- **D** *Amphibolite noir bleuâtre*
- **E** *Epidolite*
- **F** *Diorite porphyroïde*
- **G** *Phyllade passant à la grauwacke avec filons de quarz laiteux*
- **H** *Phyllade passant au talcschiste*
- **I** *Talcschiste gris-verdâtre passant à l'ardoise et à la Grauwacke*
- **J** *Talcschiste jaune passant au phyllade*
- **K** *Talcschiste rose*
- **L** *Talcschiste rose grenatifère passant au micaschiste*

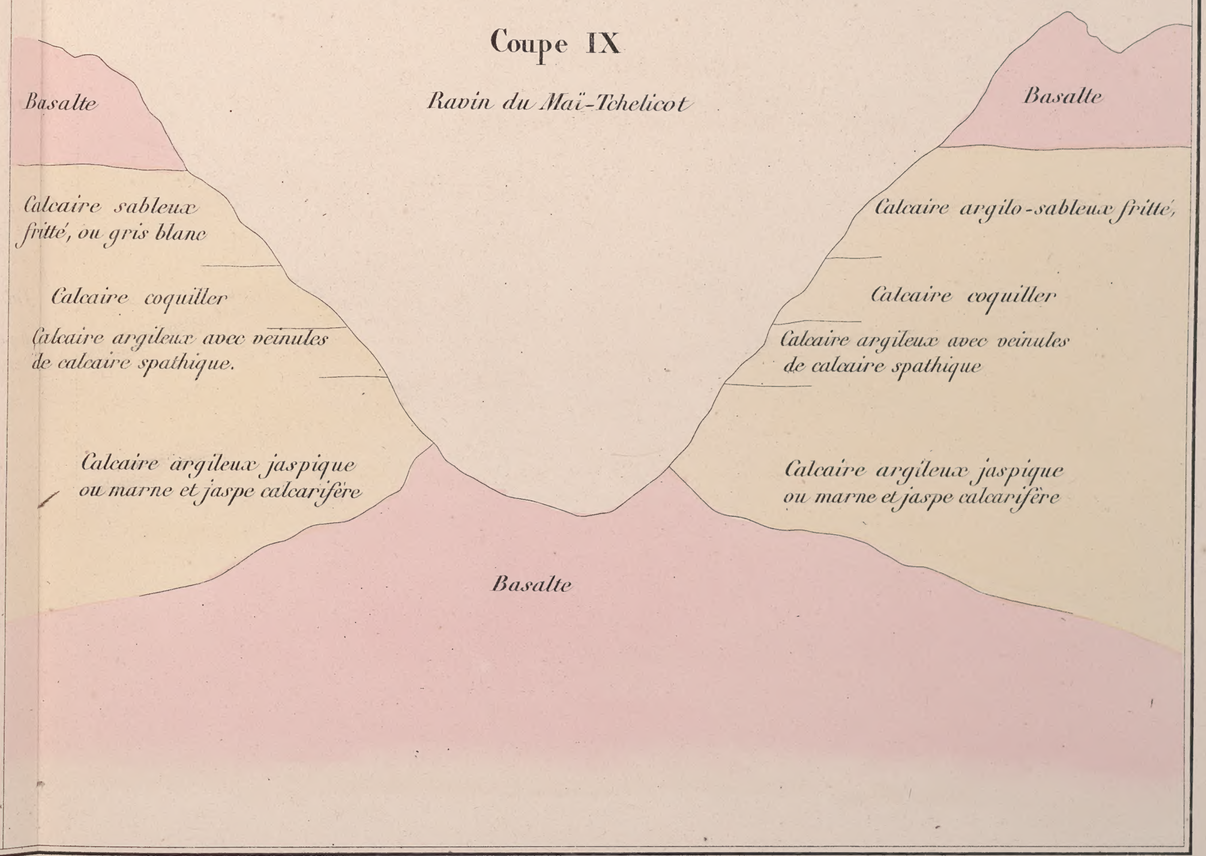
Coupe VIII

Ravin de Maitenkat au Nord d'Adde-Casti.



Coupe IX

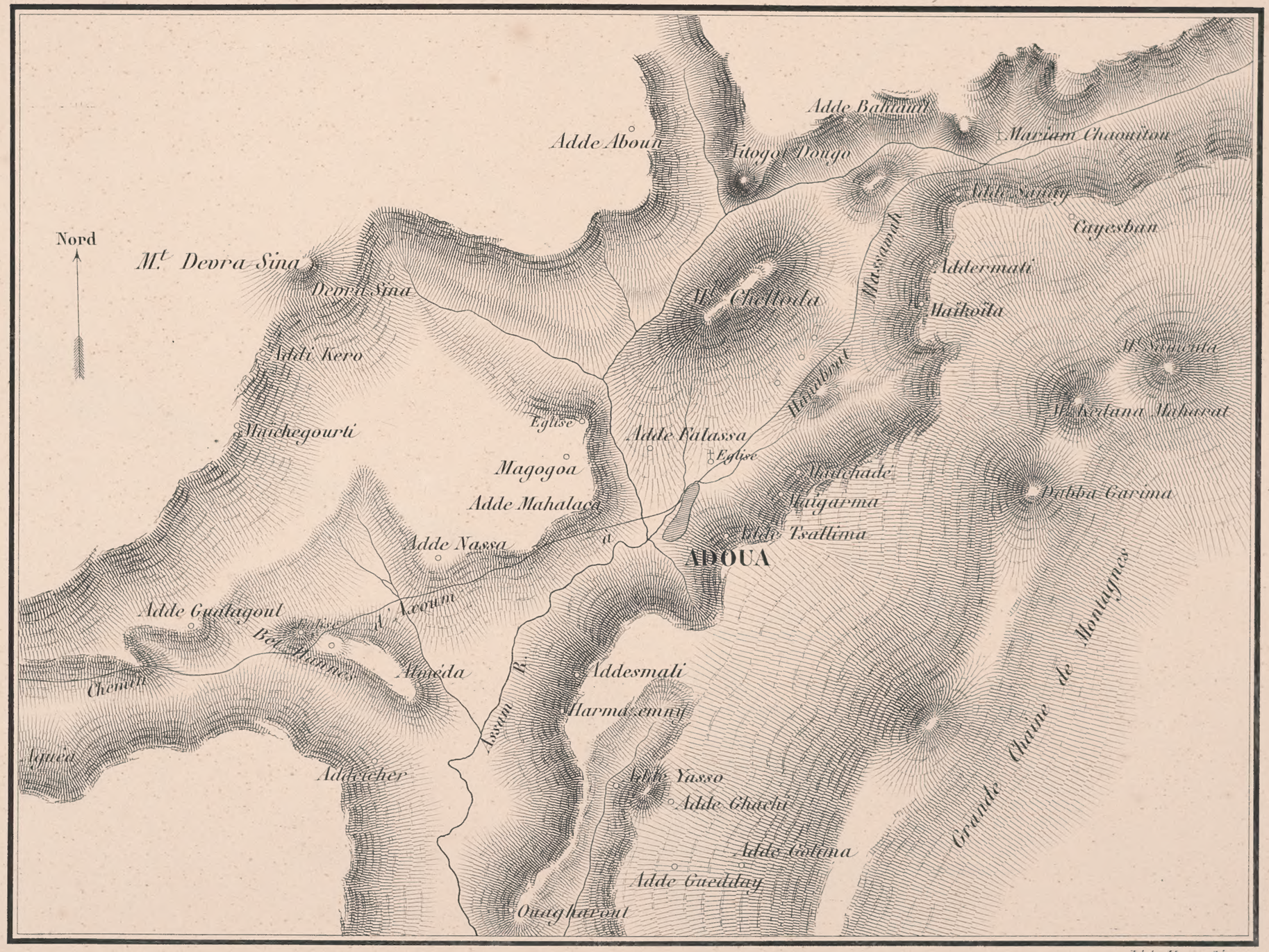
Ravin du Maï-Tchelicot



Gravé sur pierre par Regnier et Dourdet.

Lith.e Kaeppelin.

PLAN DES ENVIRONS D'ADOUA *(Levé à Vue).*



Lith. Kaeppelin

Echelle $\left(\frac{1}{100,000}\right)$

1000 500 0 1000 2000 3000 4000 5000 6000 7000 Mètres

Ficus Vallis — *Choudæ. Delile.*

Delile pinx. *N. Rémond imp.* *Lebrun sc.*

Ficus sehimperiana *Hochsteter herb. Schimp.*

Delile pinx.

N. Rémond imp.

Lebrun sc.

Cassia *Arereh. Delile.*

Lebrun sc.

N. Rémond imp.

Celastrus *Tsaad. Delile.*
Edulis *Vahl.*

Delile pinx. *N. Rémond imp.* *Lebrun sc.*

Celastrus parviflorus. *Vahl.*

Delille pinx.

N. Rémond imp.

Lebrun sc.

Galinieria *Coffeoides. Delile.*

Delile del. *N. Rémond imp.* *Lebrun sc.*

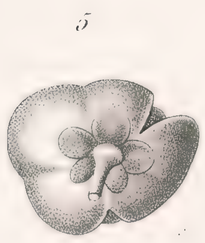
Teclea *Nobilis. Delile.*

Lebrun sc

N. Rémond imp

2

1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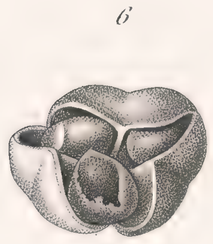
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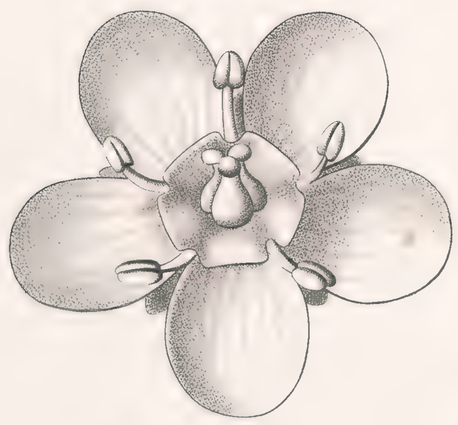
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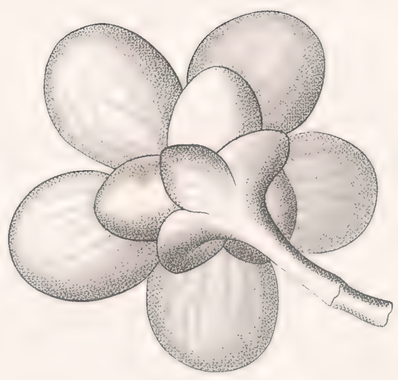

4

Celastrus *luteolus* *Dekte.*

Lebrun sc. *N. Rémond imp.*

2

1

3

4

5

8

9

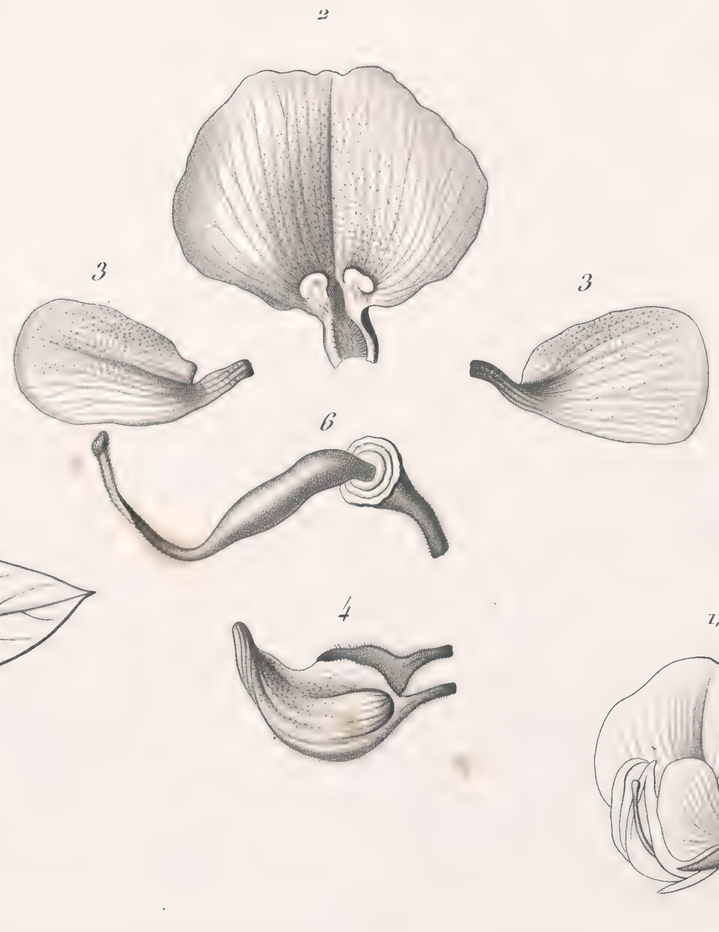
7

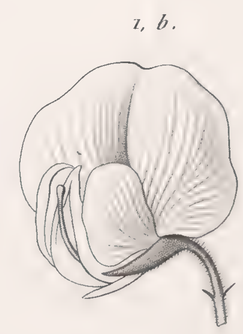
6

Ozoroa *insignis, petite.*

Lebrun sc.

N. Rémond imp.





Crotalaria *recta*, *Studet.*

Crotalaria *fertilis.* *Delile.*

Lebrun sc.

N. Rémond imp.

Feretia *Apodanthera.* *Delile.*

Lebrun sc.

N. Rémond imp.

Fig. 4.

Fig. 5.

1. Ranunculus orerophytus *Delile.*

4. Helichrysum citrispinum *Delile.*

Lebrun sc. *N. Rémond imp*

Inula arbuscula, *Delile.*

Lebrun sc. *N. Rémond imp.*

Ficus Dahero, *Dellile.*

Ficus panifieus, *Dellile.*

Dellile del. *N. Rémond imp.* *Lebrun sc.*

Delille del.

Bœhmeria hypoleuca, *Hochst.*

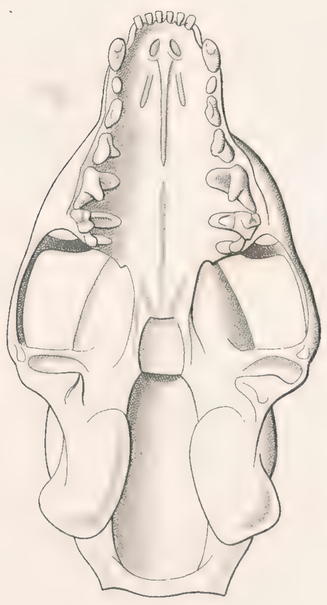
N. Rémond imp.

Lebrun sc.

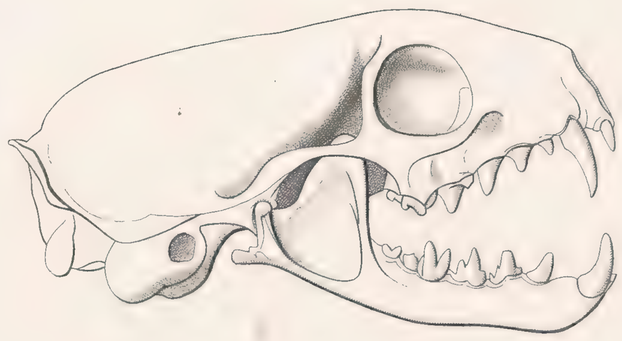
1

2

2 b



2 a



2 c

1. Herpestes *galinieri* *Puchran.* 2. Herpetes *mutgigella*, *Ruppel.*

Prêtre del. *N. Rémond imp.* *Lebrun sc.*

Bubo *Cinerasceus, Guérin.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

Otus *Abyssinicus.* *Guer.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

Lanius Œthiopicus.

Prêtre pinx. N. Rémond imp. Lebrun sc.

Cossypha *Gutturalis. Guer.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

Cossypha *Nigrocapilla*, *Guérin.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

Muscicapa *fumigata. cuvier.*

Prêtre pinxt. *N. Rémond imp.* *Lebrun sculp.*

1. Tchitrea Ferreti *(mâle)* Guer. 2. Tchitrea Ferreti *(femelle)* Guer.

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

1. Parus *leuconotus.* 2. Zosterops *Abyssinica* Guer.

Prêtre pinx. *N. Rémond imp.* *Lehoux sc.*

Hirundo *Abyssinica*: *cuer.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

Saxicola *Leucuroides, Guérin.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

2

1. Saxicola *(mâle).* 2. Saxicola *(femelle).*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

Parisoma *Galinieræ*. *Guer.*

Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

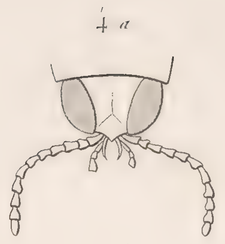
Ploceus *Melanotis, Guérin.*

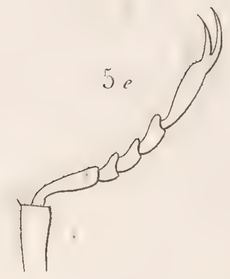
Prêtre pinx. *N. Rémond imp* *Lebrun sc.*

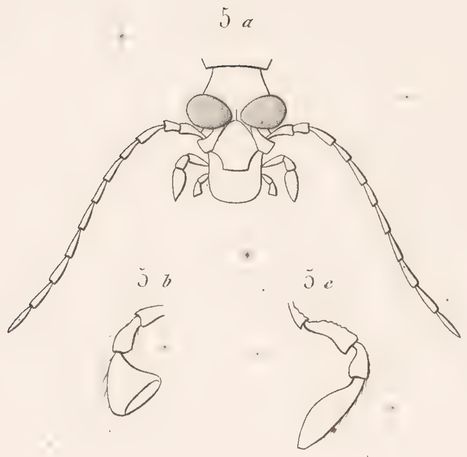
Merops *Lafresnayii. Guer.*

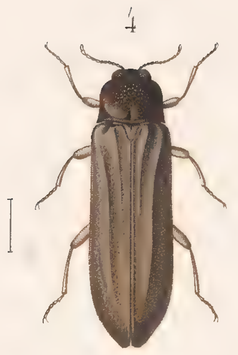
Prêtre pinx. *N. Rémond imp.* *Lebrun sc.*

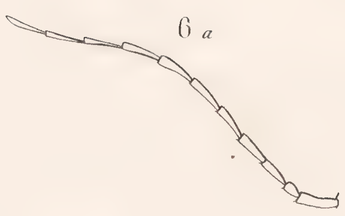
1. Anthia *Galinieri*.
2. Anthia *Verreti*.
3. Panagœus *Stenocephalus*.
4. Chlœnius *fulvosignatus*.
5. Chlœnius *Cupreocinctus*.
6. Anchomenus *rufoæneus*.
7. Hydaticus *jucundus*.
8. Dineutes *gondaricus*.

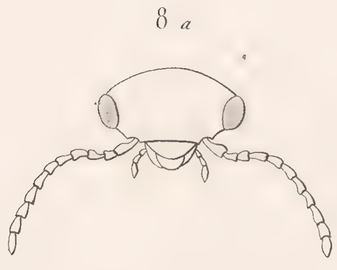


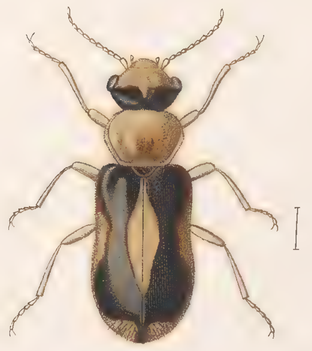






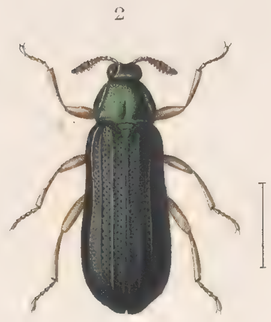






1. Pœderus *eximius.*
2. Buprestis *albicincta.*
3. Lyceus *ustulatus.*
4. Luciola *lucernula.*
5. Idgia *fulvicollis.*
6. Telephorus *deusta.*
7. Malthinus *elongatus.*
8. Hedybius *formosus.*

C.M. del. *N. Rémond imp.* *Lebrun sc.*

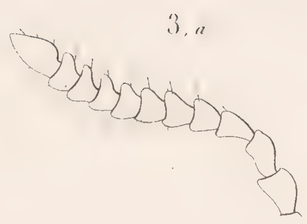

2

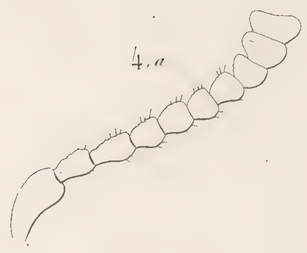
1, *a*

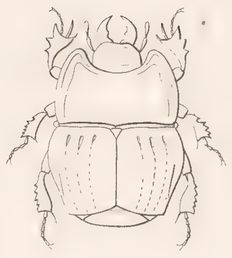
2. *a*

1

3


3. *a*


4. *a*


6

5

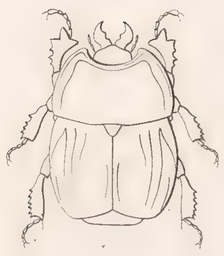
8

4

9. *a*

4. *a*

9


7

10

1. Melyris *corrosa*.
2. Melyris *festiva*.
3. Melyris *fulvipes*.
4. Opilus *Ferreti*.
5. Hister *Walkeri*.
6. Hister *obscurus*
7. Hister *gagatinus*.
8. Hister *coprophilus*.
9. Gymnopleurus *indigaceus*.
10. Gymnopleurus *pumilus*.

G.M. del. *N. Rémond imp.* *Lebrun sc.*

1. Sisyphus *ocellatus.*
2. Copris *integra.*
3. Copris *neptis.*
4. Onthophagus *prostans.*
5. Onthophagus *porrectus.*
6. Onthophagus *Bracii.*
7. Onthophagus *diversus.*
8. Onthophagus *corniculatus.*
9. Onthophagus *bifidus.*

Lebrun sc. *N. Rémond imp.*

1

1, a.

2

3, a.

3

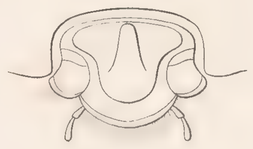
2, a.

5, b.

5, a.

4

5, c.



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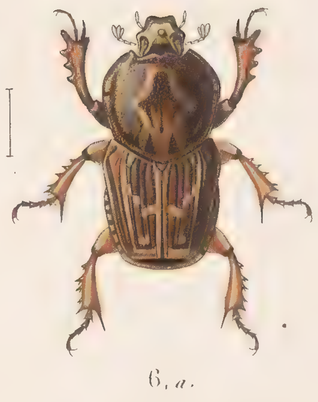
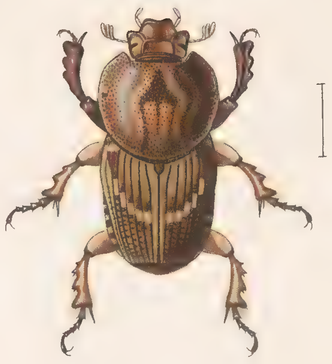
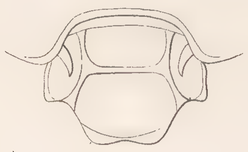


4, a.

6



6, a.



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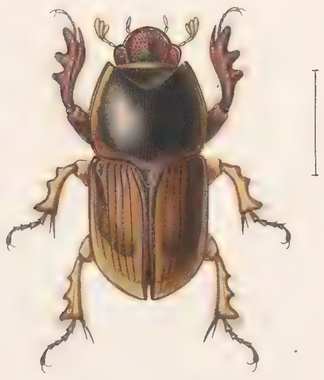


7

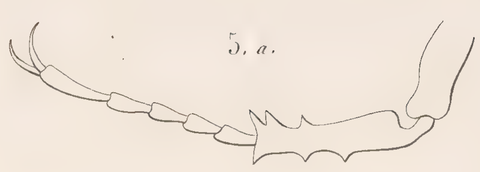
9

1. Onitis *Crenatus.*
2. Onitis *Schoensis.*
3. Onitis *Abyssinicus.*
4. Oniticellus *inæqualis.*
5. 6. Oniticellus *intermedius.*
7. Oniticellus *nasicornis.*
8. Colobopterus *Senegalensis.*
9. Colobopterus *maculicollis.*

Lebrun sc. N. Rémond, imp.

2

1



5. *a.*

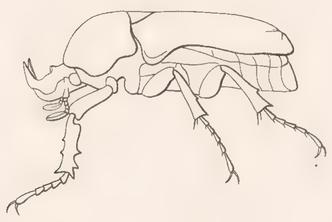
5

6. *b.*

6. *c.*

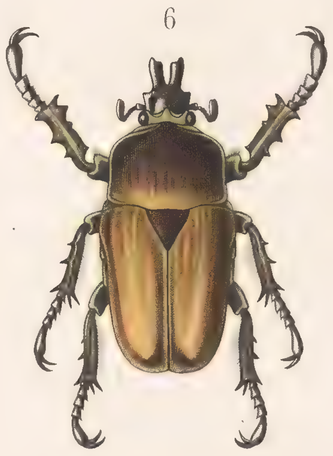
4

5. *b.*



3

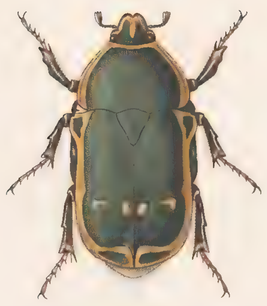
6



6. *c.*

6. *d.*

8



6. *a.*

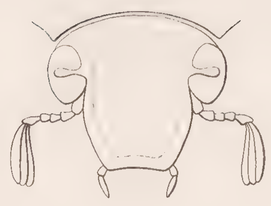
7

1. Acrossus *rhinoceros.*
2. Acrossus *pulcherrimus.*
3. Trigonostoma *vestitum.*
4. Omaloplia *Atrata.*
5. Comsocephalus *galinieri.*
6 Comsocephalus *horsfieldianus.*
7. Pachnoda *Abyssinica.*
8. Pachnoda *Starhlini.*

E. Bury pinx. *N. Rémond imp.* *Lebrun sc.*

1

1, *a*.



2

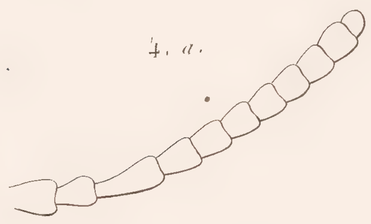
6

6, *a*.

5, *a*

4

4, *a*.



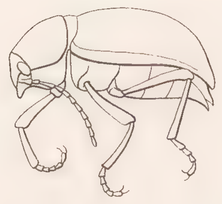
5

3, *a*.

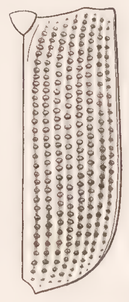
3

7

7, *a*.



8, *a*.



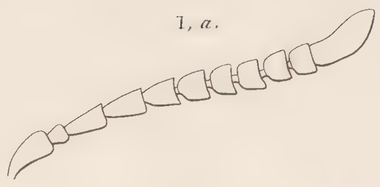
8

1. Leucocelis *discicollis*.
2. Leucocelis *lunata*.
3. Zophosis . *cursor*.
4. Axumia *prælonga*.
5 6. Macropoda *Abyssinica*.
7. Moluris *catenata*.
8. Opatrum *strigosum*.

Nicollet del. *N. Rémond imp.* *Lebrun sc.*

1

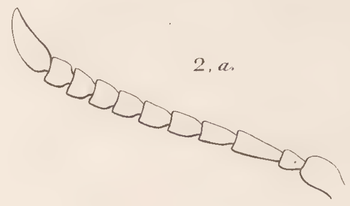
1, *a.*



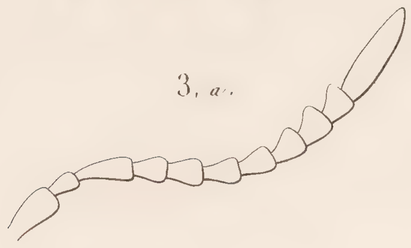
4

2

2, *a.*



3, *a.*



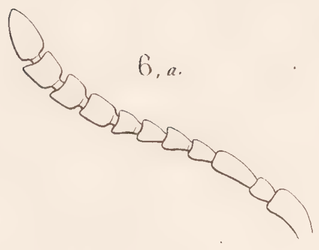
3

4, *a.*

6

7

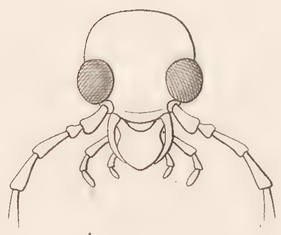
6, *a.*



8 *b.*

5

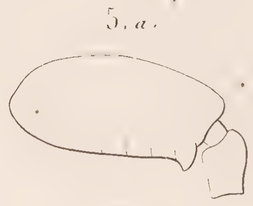
8, *a.*



8

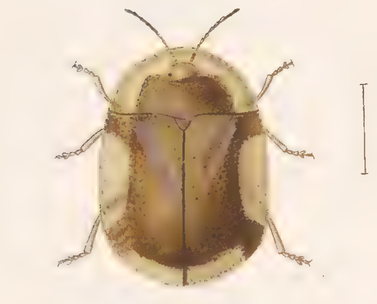
1 2. Lagria *aerea.*
3. Lagria *viridiaenea.*
4. Mylabris *designata.*
5. Mylabris *tristis.*
6. Mylabris *flavoguttata.*
7. Mylabris *vestita.*
8. Cantharis *rubricollis.*

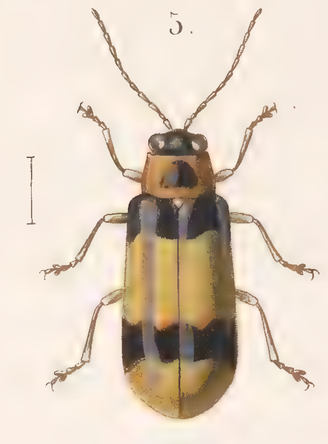
Nicollet del. *N. Rémond imp.* *Lebrun sc.*



1. Nematocerus *metallicus*.
2. Phyllobius *hirtellus*.
3. Lixus *nycterophorus*.
4. Lixus *dorsalis*.
5. Paussus *verticalis*.
6. Ceroplesis *marmorata*.
7. Sternodonta *Ferreti*.
8. Pachystola *variegata*.

Mme Bury del. *N. Rémond imp.* *Lebrun sc.*





1. Sagra *Galinieri*.
2. Lema *foraminosa*.
3. Hispa *acanthina*.
4. Deloyla *quadrupedans*.
5. Diacantha *ornata*.
6. Monolepta *occipitalis*
7. Chrysomella *opulenta*.
8. Chrysomella *timbolata*.
9. Cryptocephalus *decoratus*.

Vaillant del. *N. Rémond imp.* *Lebrun sc.*

1. Galleruca *Abyssinica.*
2. Danae *rufula.*
3. Adalia *flavamaculata.*
4. Adalia *signifera.*
5. Œnopis *Litterata.*
6. Alesia *annulata.*
7. Epilachna *Vulpecula.*
8. Epilachna *rufosignata.*
9. Epilachna *14 Signata.*
10. Verania *trivittata.*

Vaillant del. *N. Rémond imp.* *Lebrun sc.*

1.

2.

4.

3.

5.

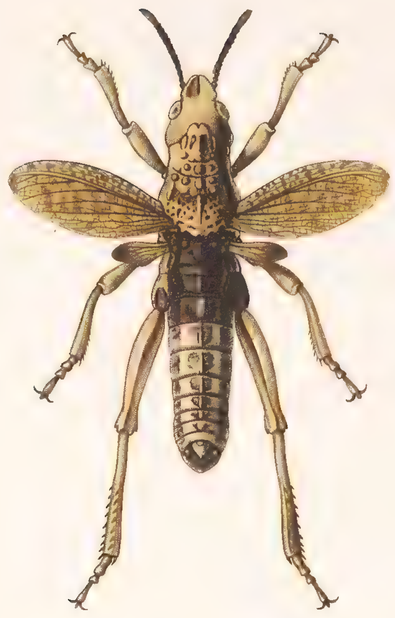
1. 2. Blatta *Ferretii*.
4. Thespis *Guerinii*.
3. Blatta *circumcincta*.
5. Eremiaphila *Marchalii (Coquerel)*.

Lebrun sc.

N. Rémond imp.

1

2



3

3 *a*.

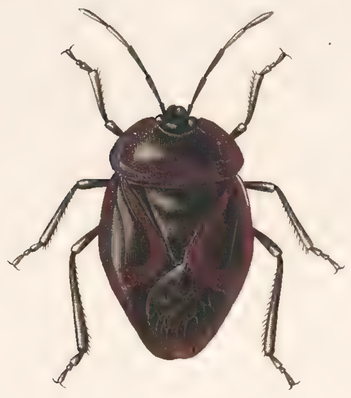
2 *a*.

4

1. Eugaster *servillei*.
2. Petasia *grisea*.
3. Œdipoda *Galinierii*.
4. Acrydium *migratorioides*.

Vaillant pinx. *N. Rémond imp.* *Lebrun sc.*

1.

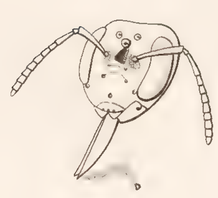


3.

12.

5.

14.a.

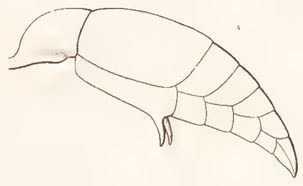


14.

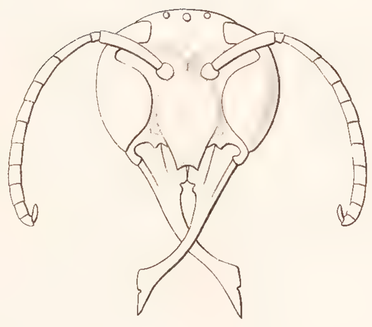
12.a.

8

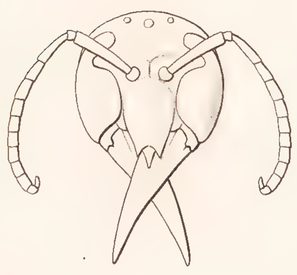
11.



7.



9.



10

4.

13.

6.

1. Dismegistes *costalis.*
2. Phyllocephala *plicata.*
3. Pirates *pungens.*
4. Mictis *scutellatus.*
5 6. Sphex *varipennis.*

7, 8. Synagris *calida*
9,10. Synagris *abyssinica.*
11. Synagris *mirabilis.*
12,13. Megachile *denticulata.*
14. Xylocopa *frontalis.*

Vaillant pinx. *V. Rémond imp.* *Lebrun sc.*

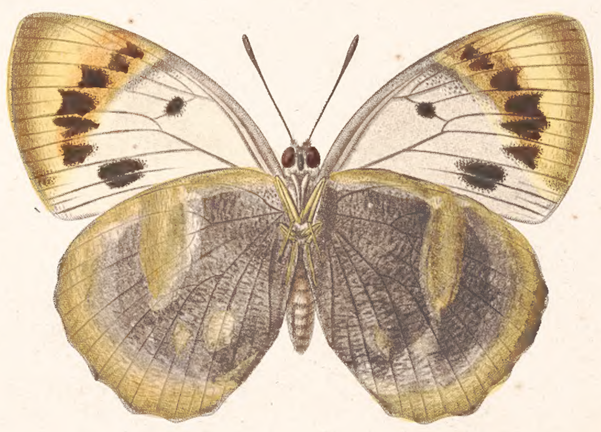
2

3

4

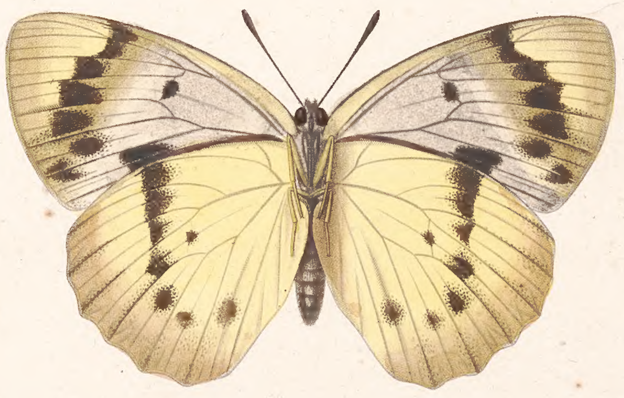
5

6



7

8



Anthocharis *ione, mâle et femelle et var.*

Vaillant pinx. *N. Rémond imp.* *Lebrun sc*

1 2

3

4 5

6

7 8

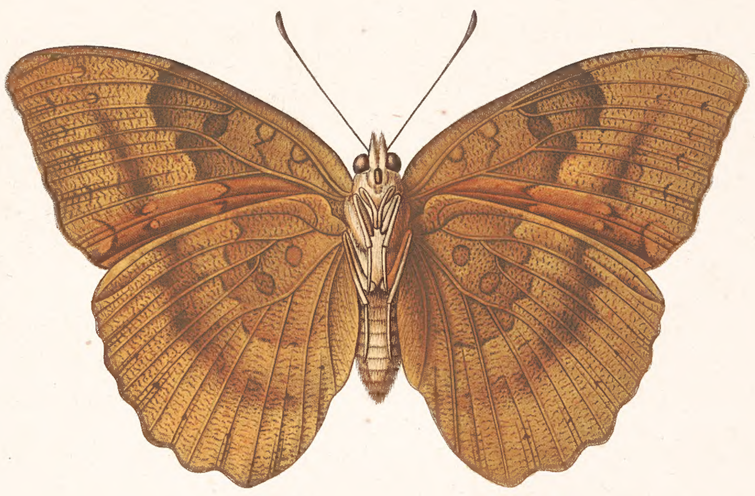
1, 2, 3. Anthocharis *eris.* 4, 5, 6. Anthocharis *exote.* 7, 8. Idmais *vesta.*

Vaillant pinx. *N. Rémond imp.* *Lebrun sc.*

1

3

4



2

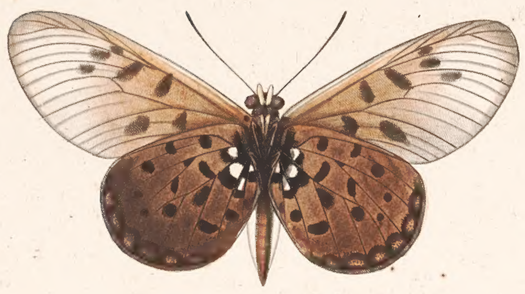
1, 2. Charaxes *epijasius*, 3, 4. Vanessa *meleagris*. *Var.*

Vaillant pinx. *N. Rémond imp.* *Lebrun sc.*

1.

2.

3.



4.

5.

7.

6.

1, 2. Acræa *doubledayi.* 3, 4. Acræa *neobule.* 5, 6, 7. Saturnia *mimosæ.*

Vaillant del. *N.Rémond imp.* *Lebrun sc.*